

Patent Abstracts of Japan

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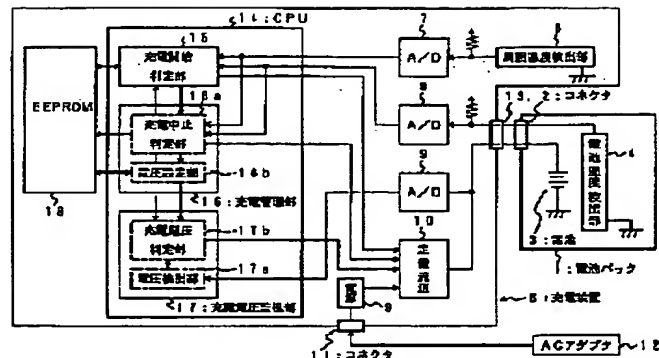
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TITLE : CHARGING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a charging device such that charging operation is not completed before charging voltage reaches battery voltage or charging operation is not completed instantly, when a battery is located to the charging device.

SOLUTION: A charging device is provide with a battery temperature detecting section 4, an ambient temperature detecting section 6, and a CPU 14. The CPU turns a constant current source 10 on for starting battery charging operation, when the ambient temperature and the battery temperature are kept within a predetermined chargeable level. While the ambient temperature and the battery temperature remains within a predetermined level, the maximal charging voltage and the charge terminating voltage of a battery 3 are determined on the basis of the detected ambient temperature. When either the ambient temperature or the battery temperature exceeds the predetermined level, the constant current source 10 is turned off, and the charging operation is suspended. The charging operation is resumed, when the temperature settle to a normal level. When the charging voltage of the battery 3 reaches either the maximal charging voltage or the charge-terminating voltage determined before, the constant current source 10 is turned off and the charging operation is terminated.

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